Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-12-07-33** **Date: 08-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /07
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-09-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	201	202	16322	24.960	1529.2	1520.0	Not less than 1800Kg/m^3
2	401	202	201	16281	24.780	1522.0		
3	403	202	202	16444	24.810	1508.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.610	34.380	3.58	3.53	Shall not be more than 10% by mass
2	35.780	34.490	3.74		
3	35.590	34.460	3.28		

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Lab ID : **CP-2018-12-07-33** **Date: 08-09-18**

Sample ID No : **2018-12-07-33 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	201	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	200	201	
3	402	202	203	
4	401	201	201	
5	403	202	203	
6	401	201	200	
7	402	201	201	
8	403	202	203	
9	401	203	201	
10	402	203	203	
11	401	202	200	
12	402	201	199	
13	401	201	203	
14	403	203	201	
15	401	201	202	
16	402	202	201	
17	401	201	203	
18	402	201	201	
19	401	203	200	
20	400	201	201	
Average of 20	**402**	**202**	**201**	

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Lab ID : CP-2018-12-07-33 Date: 08-09-18

Sample ID No : 2018-12-07-33 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	201	81003	422.36	5.2	5.4
2	401	200	80200	453.62	5.7	
3	402	202	81204	455.63	5.6	
4	401	201	80601	423.56	5.3	
5	403	202	81406	447.36	5.5	
6	401	201	80601	429.34	5.3	
7	402	201	80802	429.36	5.3	
8	403	202	81406	435.36	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-07-33** **Date: 19/09/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-18
Sample ID No	:	2018-12-07-33 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	149.85 X 149.48 X 149.34	22399	**8.713**	278.6	12.4	12.2
2	PCC	M15	12/09/2018	19/09/2018	149.80 X 150.10 X 151.37	22485	**8.225**	270.7	12.0	
3	PCC	M15	12/09/2018	19/09/2018	149.24 X 149.03 X 149.61	22240	**8.875**	270.4	12.2	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-18

Sample ID No : 2018-12-07-33 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.67 X 150.94 X 150.93	22741	**8.713**	399.0	17.5	17.7
2	PCC	M15	12/09/2018	10/10/2018	150.68 X 151.38 X 151.69	22809	**8.811**	402.2	17.6	
3	PCC	M15	12/09/2018	10/10/2018	151.94 X 149.72 X 150.95	22749	**8.834**	405.4	17.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 19/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-18

Sample ID No : 2018-12-07-33 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	149.13 X 150.17 X 151.44	22395	**8.903**	270.4	12.1	12.4
2	PCC	M15	12/09/2018	19/09/2018	151.15 X 150.26 X 149.29	22712	**8.750**	277.2	12.2	
3	PCC	M15	12/09/2018	19/09/2018	151.25 X 150.68 X 150.44	22789	**8.735**	292.4	12.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2018

Lab ID : **CP-2018-12-07-33**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-18

Sample ID No : 2018-12-07-33 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.03 X 150.74 X 150.77	22615	**8.649**	407.1	18.0	17.7
2	PCC	M15	12/09/2018	10/10/2018	150.61 X 151.25 X 151.74	22780	**8.186**	407.8	17.9	
3	PCC	M15	12/09/2018	10/10/2018	150.88 X 151.69 X 150.91	22886	**8.903**	396.1	17.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 19/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-18

Sample ID No : 2018-12-07-33 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	150.58 X 149.42 X 149.30	22499	**8.889**	271.7	12.1	12.1
2	PCC	M15	12/09/2018	19/09/2018	149.41 X 151.66 X 150.12	22659	**8.541**	275.3	12.1	
3	PCC	M15	12/09/2018	19/09/2018	149.26 X 151.75 X 150.02	22650	**8.195**	273.3	12.1	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-18

Sample ID No : 2018-12-07-33 /06

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	151.77 X 151.38 X 150.87	22975	**8.117**	398.3	17.3	17.4
2	PCC	M15	12/09/2018	10/10/2018	149.44 X 149.33 X 150.96	22316	**8.747**	400.7	18.0	
3	PCC	M15	12/09/2018	10/10/2018	149.10 X 151.75 X 150.54	22627	**8.949**	385.5	17.0	

Note:
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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 19/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-18

Sample ID No : 2018-12-07-33 /07

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	150.87 X 151.12 X 151.62	22799	**8.714**	291.6	12.8	12.3
2	PCC	M15	12/09/2018	19/09/2018	151.45 X 151.61 X 150.70	22961	**8.541**	279.8	12.2	
3	PCC	M15	12/09/2018	19/09/2018	149.88 X 151.35 X 150.73	22685	**8.691**	273.0	12.0	

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-18

Sample ID No : 2018-12-07-33 /08

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.93 X 151.49 X 149.52	22865	**8.857**	400.3	17.5	17.4
2	PCC	M15	12/09/2018	10/10/2018	151.31 X 151.52 X 149.04	22926	**9.047**	400.3	17.5	
3	PCC	M15	12/09/2018	10/10/2018	150.65 X 150.55 X 150.83	22682	**8.298**	392.0	17.3	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-12-07-33 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/09/2018	22/09/2018	151.21 X 149.72 X 151.50	22640	**8.977**	276.7	12.2	12.3
2	PCC	M15	15/09/2018	22/09/2018	149.39 X 151.89 X 151.18	22692	**8.817**	278.5	12.3	
3	PCC	M15	15/09/2018	22/09/2018	151.98 X 151.76 X 150.66	23066	**8.254**	286.4	12.4	

Note:
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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-12-07-33 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/09/2018	13/10/2018	150.35 X 150.37 X 151.97	22608	**8.324**	392.2	17.3	17.5
2	PCC	M15	15/09/2018	13/10/2018	151.17 X 150.25 X 150.09	22713	**8.928**	396.6	17.5	
3	PCC	M15	15/09/2018	13/10/2018	149.21 X 150.62 X 150.95	22474	**8.219**	399.1	17.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-12-07-33 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/09/2018	22/09/2018	150.80 X 150.45 X 151.08	22687	**8.499**	278.4	12.3	12.6
2	PCC	M15	15/09/2018	22/09/2018	150.59 X 151.82 X 151.23	22862	**8.481**	288.2	12.6	
3	PCC	M15	15/09/2018	22/09/2018	150.57 X 149.55 X 149.41	22517	**8.199**	292.4	13.0	

Note:
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AEE (VRP)-SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-12-07-33 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/09/2018	13/10/2018	151.28 X 151.82 X 149.82	22968	**8.207**	405.4	17.7	17.7
2	PCC	M15	15/09/2018	13/10/2018	149.55 X 150.61 X 150.60	22523	**9.023**	399.6	17.7	
3	PCC	M15	15/09/2018	13/10/2018	152.00 X 149.34 X 150.19	22699	**8.201**	399.6	17.6	

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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-12-07-33 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/09/2018	22/09/2018	150.78 X 149.66 X 149.12	22566	**8.571**	289.2	12.8	12.5
2	PCC	M15	15/09/2018	22/09/2018	151.29 X 151.45 X 150.73	22911	**8.170**	288.4	12.6	
3	PCC	M15	15/09/2018	22/09/2018	149.84 X 150.61 X 150.61	22568	**8.307**	276.3	12.2	

Note:
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Page 1/1
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/10/2018

Lab ID	:	**CP-2018-12-07-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-09-18
Sample ID No	:	2018-12-07-33 /06
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/09/2018	13/10/2018	150.62 X 150.30 X 151.58	22638	**8.803**	405.1	17.9	17.4
2	PCC	M15	15/09/2018	13/10/2018	151.23 X 149.96 X 151.43	22679	**8.560**	390.9	17.2	
3	PCC	M15	15/09/2018	13/10/2018	151.99 X 149.94 X 151.24	22789	**8.614**	388.1	17.0	

Note:
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Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 25/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /01

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	149.33 X 150.88 X 151.79	22532	**8.678**	416.0	18.5	18.4
2	RCC	M20	18/09/2018	25/09/2018	150.62 X 149.87 X 151.62	22573	**9.018**	424.1	18.8	
3	RCC	M20	18/09/2018	25/09/2018	151.62 X 149.50 X 151.68	22667	**8.920**	409.5	18.1	

Note:
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All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID	:	**CP-2018-12-07-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-12-07-33 /02
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	150.39 X 150.79 X 149.88	22677	**8.478**	534.3	23.6	23.3
2	RCC	M20	18/09/2018	16/10/2018	149.55 X 149.55 X 151.36	22366	**8.874**	513.4	23.0	
3	RCC	M20	18/09/2018	16/10/2018	150.87 X 151.05 X 150.31	22788	**8.821**	530.4	23.3	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 25/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /03

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	149.09 X 151.33 X 149.50	22562	**8.959**	418.3	18.5	18.5
2	RCC	M20	18/09/2018	25/09/2018	149.77 X 149.61 X 150.33	22407	**8.735**	422.1	18.8	
3	RCC	M20	18/09/2018	25/09/2018	150.50 X 151.78 X 151.60	22843	**8.754**	414.6	18.2	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 16/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /04

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	150.36 X 151.45 X 151.93	22773	**9.035**	524.0	23.0	23.2
2	RCC	M20	18/09/2018	16/10/2018	151.63 X 151.27 X 150.54	22937	**8.424**	523.1	22.8	
3	RCC	M20	18/09/2018	16/10/2018	150.18 X 150.94 X 149.56	22668	**8.825**	538.3	23.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 25/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /05

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	149.27 X 151.76 X 150.18	22653	**8.125**	419.2	18.5	18.7
2	RCC	M20	18/09/2018	25/09/2018	149.79 X 149.49 X 151.65	22391	**8.539**	423.0	18.9	
3	RCC	M20	18/09/2018	25/09/2018	150.56 X 151.24 X 149.55	22771	**8.247**	422.6	18.6	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 16/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /06

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	151.15 X 151.09 X 149.26	22837	**9.069**	526.2	23.0	23.1
2	RCC	M20	18/09/2018	16/10/2018	149.92 X 151.16 X 150.44	22662	**8.642**	508.4	22.4	
3	RCC	M20	18/09/2018	16/10/2018	150.36 X 150.39 X 150.80	22612	**8.243**	535.9	23.7	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 25/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /07

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	152.00 X 149.75 X 149.94	22762	**8.179**	432.2	19.0	18.5
2	RCC	M20	18/09/2018	25/09/2018	150.99 X 151.97 X 151.73	22947	**8.116**	416.3	18.1	
3	RCC	M20	18/09/2018	25/09/2018	150.44 X 149.81 X 150.64	22537	**9.059**	415.2	18.4	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID	:	**CP-2018-12-07-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-12-07-33 /08
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	151.81 X 149.57 X 149.14	22707	**8.225**	544.4	24.0	23.2
2	RCC	M20	18/09/2018	16/10/2018	151.64 X 151.93 X 149.08	23040	**8.591**	510.2	22.1	
3	RCC	M20	18/09/2018	16/10/2018	150.41 X 150.35 X 149.43	22614	**8.108**	529.8	23.4	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 25/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /01

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	149.17 X 149.85 X 151.51	22352	**8.925**	407.6	18.2	18.5
2	RCC	M20	18/09/2018	25/09/2018	149.86 X 150.34 X 149.48	22531	**8.630**	418.2	18.6	
3	RCC	M20	18/09/2018	25/09/2018	151.54 X 150.08 X 151.00	22743	**8.941**	423.5	18.6	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 16/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /02

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	150.30 X 149.82 X 151.22	22518	**8.193**	536.9	23.8	23.2
2	RCC	M20	18/09/2018	16/10/2018	151.93 X 150.82 X 149.29	22914	**8.450**	508.9	22.2	
3	RCC	M20	18/09/2018	16/10/2018	151.47 X 150.77 X 149.14	22836	**8.215**	539.2	23.6	

Note:
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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/09/2018

Lab ID	:	**CP-2018-12-07-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-12-07-33 /03
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	150.40 X 149.38 X 150.80	22467	**8.945**	419.5	18.7	18.8
2	RCC	M20	18/09/2018	25/09/2018	149.77 X 150.37 X 149.58	22521	**8.985**	425.9	18.9	
3	RCC	M20	18/09/2018	25/09/2018	149.49 X 150.57 X 149.93	22509	**8.511**	426.4	18.9	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID	:	**CP-2018-12-07-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-12-07-33 /04
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	150.27 X 151.76 X 151.09	22805	**8.362**	532.8	23.4	23.0
2	RCC	M20	18/09/2018	16/10/2018	151.47 X 151.40 X 149.79	22932	**8.665**	520.5	22.7	
3	RCC	M20	18/09/2018	16/10/2018	149.28 X 149.86 X 151.95	22372	**8.808**	515.1	23.0	

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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 25/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /05

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	151.49 X 150.80 X 150.84	22844	**8.626**	422.5	18.5	18.8
2	RCC	M20	18/09/2018	25/09/2018	151.91 X 149.64 X 149.03	22732	**8.709**	430.1	18.9	
3	RCC	M20	18/09/2018	25/09/2018	150.27 X 151.36 X 151.68	22744	**8.933**	430.5	18.9	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

CIVIL PRO BANGALORE Sig..... Date.....

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID : **CP-2018-12-07-33**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /06

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	150.68 X 149.93 X 150.59	22592	**8.986**	530.6	23.5	23.2
2	RCC	M20	18/09/2018	16/10/2018	149.85 X 150.88 X 149.96	22610	**9.062**	502.3	22.2	
3	RCC	M20	18/09/2018	16/10/2018	151.54 X 151.27 X 149.17	22924	**8.111**	546.8	23.9	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 25/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /07

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	25/09/2018	150.42 X 149.54 X 151.71	22493	**9.090**	423.4	18.8	18.7
2	RCC	M20	18/09/2018	25/09/2018	150.36 X 149.05 X 149.82	22411	**8.166**	414.6	18.5	
3	RCC	M20	18/09/2018	25/09/2018	151.02 X 149.93 X 151.39	22643	**9.069**	423.3	18.7	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-33** **Date: 16/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-18

Sample ID No : 2018-12-07-33 /08

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	18/09/2018	16/10/2018	150.44 X 151.20 X 149.87	22745	**8.642**	530.1	23.3	23.2
2	RCC	M20	18/09/2018	16/10/2018	150.18 X 150.98 X 149.34	22675	**8.477**	508.0	22.4	
3	RCC	M20	18/09/2018	16/10/2018	150.00 X 149.73 X 151.75	22460	**8.229**	537.3	23.9	

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